

Analytical Services

Columbia

#### LABORATORY REPORT

February 9, 2012

Tim Pool Aquaterra Environmental Solutions, Inc. 13 Executive Dr., Suite 1 Fairview Heights, IL 62208

RE: Cottonwood Hills Flare Gas Sample / 4733.11

Dear Tim:

Enclosed are the results of the samples submitted to our laboratory on January 27, 2012. For your reference, these analyses have been assigned our service request number P1200302.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAPaccredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3-R2; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-11-2; Minnesota Department of Health, NELAP Certificate No. 362188; Washington State Department of Ecology, ELAP Lab ID: C946, State of Utah Department of Health, NELAP Certificate No. CA015272011-1; Los Angeles Department of Building and Safety, Approval No: TA00001. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Sue Inderson

Digitally signed by Sue Anderson Date: 2012.02.09 14:05:52 -08'00'

Sue Anderson Project Manager



Columbia



Client: Aquaterra Environmental Solutions, Inc. CAS Project No:

P1200302

Project: Cottonwood Hills Flare Gas Sample / 4733.11

#### CASE NARRATIVE

The samples were received intact under chain of custody on January 27, 2012 and were stored in accordance with the analytical method requirements. The valve on sample CWH-1 (P1200302-001) was found to be open upon receipt at the laboratory. The valve was closed upon receipt and enough volume was present to analyze per client instruction. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

## Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-08 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Use of Columbia Analytical Services, Inc. (CAS) Name. Client shall not use CAS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to CAS any test result, tolerance or specification derived from CAS's data ("Attribution") without CAS's prior written consent, which may be withheld by CAS for any reason in its sole discretion. To request CAS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If CAS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use CAS's name or trademark in any Materials or Attribution shall be deemed denied. CAS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of CAS's name or trademark may cause CAS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.





DETAIL SUMMARY REPORT

Client: Aquaterra Environmental Solutions, Inc. Service Request: P1200302

Project ID: Cottonwood Hills Flare Gas Sample / 4733.11

Date Received: 1/27/2012 Time Received: 09:30

D5504-01 - Sulfur Bag

			Date	Time	MT
Client Sample ID	Lab Code	Matrix	Collected	Collected	Y AS.
CWH-1	P1200302-001	Air	1/26/2012	13:05	X
CWH-2	P1200302-002	Air	1/26/2012	13:10	X
CWH-3	P1200302-003	Air	1/26/2012	13:15	X



# Air - Chain of Custody Record & Analytical Service Request

Page	of.	
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2655 Park Center Drive, Suite A Simi Valley, California 93065 Phone (805) 526-7161 Fax (805) 526-7270

Fax (805) 526-7270				1 Day (100%) 2 Day					-tt	CAS Project	1003				
					y (75%) 3 Day (50%	6) 4 Day (35%)	5 Day (25%) 1	u Day-Stan	CAS Contac	t:	1000	07	and the second		
Company Name & Address (Reporting	Information)	- adapter		Project Name											
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English Herall	7/10	2/1 Ø		Project Number	733					1			NO MARKET		
Project Manager	16000	70 g		P.O. # / Billing Inform	nation	A			- The state of the	-					
Tim Pool				.O. # / Dinning initotil	nation				3- 3				THE COLUMN		
Phone 618 628 2001	Fax 618-6	28-20	<i>a</i>						HOSSO	And the second s	e.g. Ac Preserva	ctual			
Email Address for Result Reporting				Sampler (Print & Sign)			7//		1		specific inst				
tpool @ aquat	terra-env.	com		Tim Paul					7 3	Authorities Production Control					
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code #- FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	ASTA C	o Stephen was and a said	NAME OF THE PROPERTY OF THE PR		The state of the s		
CWH-1	0 .	1-26-12	1305	90675-47506				lu	X	The state of the s	Include	1125			
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Report Tier Levels - please select															
Tier I - Results (Default if not specified) Fier II (Results + QC Summaries)			Tier III (Results Tier IV (Data V	s + QC & Calibration Sum alidation Package) 10% S	maries) Surcharge			EDD requi	red Yes / N		Project Requi (MRLs, QAPF	- 1			
Relinquished by: (Signature)			Date: /-みもん	Time:	Received by: Signatu	果太阳	le c		pale:	Time:	, , , , , , , , , , , , , , , ,	,			
Relinquished by: (Signature)	2009		Date:		Received by: (Signatu	re)				Time:	Cooler / Blank	1			

Now	part of the ALS	iraup	Samnl	le Acceptance	Check Form					
Client:	Aquaterra Env	rironmental Solutions	_	ie meeeptanee	CHECK TOTAL		P1200302			
		Iills Flare Gas Sample	e / 4733.11							
100	s) received on:			•	Date opened:		by:	MZAM		
		samples received by CAS.							ation of	
ompliance of	or nonconformity.	Thermal preservation and p	oH will only be ev	aluated either at th	e request of the	client and/or as require	ed by the method/	SOP. <u>Yes</u>	<u>No</u>	<u>N/A</u>
1	Were sample	containers properly 1	narked with cl	lient samnle IF	<b>)</b> 9			X		
2	-	upplied by CAS?	marked with or	acin sample in				$\boxtimes$		
3		ontainers arrive in go	od condition?					×		
4	-	f-custody papers used		-9				X		
5		ontainer labels and/o			agre?			$\mathbf{X}$		
6	_	olume received adequ			DC15:			$\boxtimes$		
7	-	vithin specified holding	-	015 :				$\mathbf{X}$		
	-	mperature (thermal )	-	of agalar at rac	aint adharad	to?				$\boxtimes$
8	was proper te	<b>inperature</b> (mermar)	preservation) (	or cooler at rec	erpt adhered	10 !		ш		
9	Was a trip bla	ank received?								X
10	Were custody	seals on outside of co	ooler/Box?						X	
		Location of seal(s)?					Sealing Lid?			X
	Were signature	e and date included?								X
	Were seals int	act?								X
	Were custody	seals on outside of sa	mple containe	r?					X	
		Location of seal(s)?					Sealing Lid?			X
	Were signature	e and date included?								X
	Were seals int	act?								X
11	Do container	rs have appropriate pr	reservation, a	ccording to me	thod/SOP or	Client specified i	nformation?			X
	Is there a clie	nt indication that the	submitted sam	ples are pH p	reserved?					X
	Were <b>VOA</b> v	ials checked for prese	ence/absence o	of air bubbles?						X
	Does the clien	t/method/SOP require	e that the analy	st check the sa	ample pH and	l <u>if necessary</u> alte	r it?			X
12	<b>Tubes:</b>	Are the tubes cap	ped and intact	?						X
		Do they contain r								X
13	Badges:	Are the badges p		d and intact?						$\overline{\mathbf{x}}$
		Are dual bed bad			v capped and	l intact?				$\overline{\mathbf{x}}$
T 1	2 L ID						ъ.	. / D		
Lab	Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	-	ot / Prese Commer		
21200302	2-001.01	1 L Zefon Bag	PZZ	l	Iva	(1100011001110001100)	Received Ted			ve open
P1200302		1 L Zefon Bag						0	VIII	
P1200302	2-003.01	1 L Zefon Bag								
Explain	any discrepanci	es: (include lab sample	ID numbers):							-
1	F									
RSK - MI	EEPP, HCL (pH<2); I	RSK - CO2, (pH 5-8); Sulfur (p	H>4)							

Date Collected: 1/26/12

Date Received: 1/27/12

Date Analyzed: 1/27/12

Time Collected: 13:05



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#### RESULTS OF ANALYSIS

Page 1 of 1

Client: Aquaterra Environmental Solutions, Inc.

Client Sample ID: CWH-1 CAS Project ID: P1200302 Client Project ID: Cottonwood Hills Flare Gas Sample / 4733.11 CAS Sample ID: P1200302-001

Test Code: ASTM D 5504-08

Instrument ID: Agilent 6890A/GC13/SCD

Wade Henton Analyst: Sampling Media: 1 L Zefon Bag Test Notes:

Time Analyzed: 11:38 Volume(s) Analyzed: 1.0 ml(s)

CAS#	Compound	Result	MRL	Result	MRL	Data
		$\mu \mathrm{g}/\mathrm{m}^3$	$\mu g/m^3$	ppbV	ppbV	Qualifier
7783-06-4	Hydrogen Sulfide	4,600	7.0	3,300	5.0	
463-58-1	Carbonyl Sulfide	57	12	23	5.0	
74-93-1	Methyl Mercaptan	1,900	9.8	980	5.0	
75-08-1	Ethyl Mercaptan	61	13	24	5.0	
75-18-3	Dimethyl Sulfide	7,600	13	3,000	5.0	
75-15-0	Carbon Disulfide	42	7.8	14	2.5	
75-33-2	Isopropyl Mercaptan	270	16	86	5.0	
75-66-1	tert-Butyl Mercaptan	560	18	150	5.0	
107-03-9	n-Propyl Mercaptan	44	16	14	5.0	
624-89-5	Ethyl Methyl Sulfide	99	16	32	5.0	
110-02-1	Thiophene	360	17	100	5.0	
513-44-0	Isobutyl Mercaptan	110	18	30	5.0	$\mathbf{W}$
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	53	18	14	5.0	
624-92-0	Dimethyl Disulfide	130	9.6	33	2.5	
616-44-4	3-Methylthiophene	110	20	28	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method. W = Result quantified, but the corresponding peak was detected outside of generated retention time window.



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#### RESULTS OF ANALYSIS

Page 1 of 1

Client: Aquaterra Environmental Solutions, Inc.

Client Sample ID: CWH-2 CAS Project ID: P1200302 Client Project ID: Cottonwood Hills Flare Gas Sample / 4733.11 CAS Sample ID: P1200302-002

Test Code: ASTM D 5504-08

Agilent 6890A/GC13/SCD Instrument ID:

Wade Henton Analyst: Sampling Media: 1 L Zefon Bag

Test Notes:

Date Collected: 1/26/12 Time Collected: 13:10 Date Received: 1/27/12 Date Analyzed: 1/27/12

Time Analyzed: 11:59

Volume(s) Analyzed: 1.0 ml(s)

CAS#	Compound	Result	MRL	Result	MRL	Data
		$\mu g/m^3$	μg/m³	ppbV	ppbV	Qualifier
7783-06-4	Hydrogen Sulfide	22,000	7.0	16,000	5.0	
463-58-1	Carbonyl Sulfide	190	12	76	5.0	
74-93-1	Methyl Mercaptan	8,100	9.8	4,100	5.0	
75-08-1	Ethyl Mercaptan	250	13	97	5.0	
75-18-3	Dimethyl Sulfide	26,000	13	10,000	5.0	
75-15-0	Carbon Disulfide	130	7.8	43	2.5	
75-33-2	Isopropyl Mercaptan	920	16	300	5.0	
75-66-1	tert-Butyl Mercaptan	1,700	18	460	5.0	
107-03-9	n-Propyl Mercaptan	110	16	36	5.0	
624-89-5	Ethyl Methyl Sulfide	300	16	98	5.0	
110-02-1	Thiophene	1,200	17	350	5.0	,
513-44-0	Isobutyl Mercaptan	370	18	100	5.0	$\mathbf{W}$
352-93-2	Diethyl Sulfide	39	18	11	5.0	
109-79-5	n-Butyl Mercaptan	190	18	52	5.0	
624-92-0	Dimethyl Disulfide	370	9.6	95	2.5	
616-44-4	3-Methylthiophene	400	20	99	5.0	
110-01-0	Tetrahydrothiophene	78	18	22	5.0	
638-02-8	2,5-Dimethylthiophene	51	23	11	5.0	
872-55-9	2-Ethylthiophene	49	23	11	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method. W = Result quantified, but the corresponding peak was detected outside of generated retention time window.

Date Collected: 1/26/12

Date Received: 1/27/12

Date Analyzed: 1/27/12

Time Collected: 13:15



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#### RESULTS OF ANALYSIS

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Client: Aquaterra Environmental Solutions, Inc.

Client Sample ID: CWH-3 CAS Project ID: P1200302 Client Project ID: Cottonwood Hills Flare Gas Sample / 4733.11 CAS Sample ID: P1200302-003

Test Code: ASTM D 5504-08

Instrument ID: Agilent 6890A/GC13/SCD

Analyst: Wade Henton Sampling Media: 1 L Zefon Bag Test Notes:

Time Analyzed: 12:22 Volume(s) Analyzed: 1.0 ml(s)

CAS#	Compound	Result	MRL	Result	MRL	Data
		μg/m³	$\mu g/m^3$	${f ppbV}$	ppbV	Qualifier
7783-06-4	Hydrogen Sulfide	22,000	7.0	16,000	5.0	
463-58-1	Carbonyl Sulfide	190	12	76	5.0	
74-93-1	Methyl Mercaptan	7,600	9.8	3,900	5.0	
75-08-1	Ethyl Mercaptan	230	13	90	5.0	
75-18-3	Dimethyl Sulfide	25,000	13	9,800	5.0	
75-15-0	Carbon Disulfide	130	7.8	43	2.5	
75-33-2	Isopropyl Mercaptan	870	16	280	5.0	
75-66-1	tert-Butyl Mercaptan	1,500	18	420	5.0	
107-03-9	n-Propyl Mercaptan	100	16	32	5.0	
624-89-5	Ethyl Methyl Sulfide	270	16	86	5.0	
110-02-1	Thiophene	1,100	17	320	5.0	
513-44-0	Isobutyl Mercaptan	340	18	91	5.0	$\mathbf{W}$
352-93-2	Diethyl Sulfide	29	18	8.0	5.0	
109-79-5	n-Butyl Mercaptan	180	18	49	5.0	
624-92-0	Dimethyl Disulfide	320	9.6	83	2.5	
616-44-4	3-Methylthiophene	360	20	90	5.0	
110-01-0	Tetrahy drothiophene	65	18	18	5.0	
638-02-8	2,5-Dimethylthiophene	33	23	7.1	5.0	
872-55-9	2-Ethylthiophene	30	23	6.5	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method. W = Result quantified, but the corresponding peak was detected outside of generated retention time window.





RESULTS OF ANALYSIS

Page 1 of 1

Client: Aquaterra Environmental Solutions, Inc.

Client Sample ID: Method Blank CAS Project ID: P1200302
Client Project ID: Cottonwood Hills Flare Gas Sample / 4733.11 CAS Sample ID: P120127-MB

Test Code: ASTM D 5504-08

Instrument ID: Agilent 6890A/GC13/SCD

Analyst: Wade Henton
Sampling Media: 1 L Zefon Bag

Test Notes:

Time Analyzed: 08:22 Volume(s) Analyzed: 1.0 ml(s)

Date Analyzed: 1/27/12

Date Collected: NA

Time Collected: NA

Date Received: NA

CAS#	Compound	Result μg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	,
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.





### LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Aquaterra Environmental Solutions, Inc.

Client Sample ID: Lab Control Sample CAS Project ID: P1200302 Client Project ID: Cottonwood Hills Flare Gas Sample / 4733.11 CAS Sample ID: P120127-LCS

Test Code: ASTM D 5504-08 Date Collected: NA

Agilent 6890A/GC13/SCD Date Received: NA Instrument ID: Wade Henton Date Analyzed: 1/27/12 Analyst:

Sampling Media: 1 L Zefon Bag Volume(s) Analyzed: NA ml(s)

Test Notes:

					CAS	
CAS#	Compound	Spike Amount	Result	% Recovery	Acceptance	Data
		ppbV	${f ppbV}$		Limits	Qualifier
7783-06-4	Hydrogen Sulfide	2,380	1,780	75	51-141	
463-58-1	Carbonyl Sulfide	2,470	1,700	69	63-147	
74-93-1	Methyl Mercaptan	2,360	2,110	89	54-156	



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# LABORATORY DUPLICATE SUMMARY RESULTS

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Client: Aquaterra Environmental Solutions, Inc.

Client Sample ID: CWH-3 CAS Project ID: P1200302

Client Project ID: Cottonwood Hills Flare Gas Sample / 4733.11 CAS Sample ID: P1200302-003DUP

Test Code: ASTM D 5504-08

Agilent 6890A/GC13/SCD Instrument ID:

Wade Henton Analyst: Sampling Media: 1 L Zefon Bag

Test Notes:

Time Analyzed: 12:48 Volume(s) Analyzed: 1.0 ml(s)

Date Collected: 1/26/12

Date Received: 1/27/12

Date Analyzed: 1/27/12

Time Collected: 13:15

			Dupli						
CAS # Compound		Sample Result		Sample Result		Average	% RPD	RPD	Data
		μg/m³	ppbV	$\mu g/m^3$	ppbV	ppbV		Limit	Qualifier
7783-06-4	Hydrogen Sulfide	22,400	16,100	22,700	16,300	16200	1	34	
463-58-1	Carbonyl Sulfide	187	76.2	186	75.7	75.95	0.7	35	
74-93-1	Methyl Mercaptan	7,650	3,890	7,570	3,850	3870	1	41	
75-08-1	Ethyl Mercaptan	229	90.0	233	91.6	90.8	2	41	
75-18-3	Dimethyl Sulfide	25,000	9,830	24,500	9,650	9740	2	41	
75-15-0	Carbon Disulfide	133	42.7	123	39.6	41.15	8	41	
75-33-2	Isopropyl Mercaptan	870	280	861	277	278.5	1	41	
75-66-1	tert-Butyl Mercaptan	1,540	419	1,500	406	412.5	3	41	
107-03-9	n-Propyl Mercaptan	99.6	32.0	96.1	30.9	31.45	3	41	
624-89-5	Ethyl Methyl Sulfide	268	86.0	282	90.7	88.35	5	41	
110-02-1	Thiophene	1,090	318	1,050	305	311.5	4	41	
513-44-0	Isobutyl Mercaptan	336	91.2	342	92.7	91.95	2	41	W
352-93-2	Diethyl Sulfide	29.4	7.97	40.0	10.9	9.435	31	41	
109-79-5	n-Butyl Mercaptan	180	48.7	182	49.5	49.1	2	41	
624-92-0	Dimethyl Disulfide	320	83.1	309	80.2	81.65	4	41	
616-44-4	3-Methylthiophene	362	90.3	350	87.3	88.8	3	41	
110-01-0	Tetrahydrothiophene	65.1	18.1	67.1	18.6	18.35	3	41	
638-02-8	2,5-Dimethylthiophene	32.6	7.10	38.8	8.45	7.775	17	41	
872-55-9	2-Ethylthiophene	29.9	6.51	38.0	8.28	7.395	24	41	
110-81-6	Diethyl Disulfide	ND	ND	ND	ND	-	-	41	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

W = Result quantified, but the corresponding peak was detected outside of generated retention time window.